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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,945	05/22/2006	Ralf Mayer	032301.458	9528
	7590 08/17/200 BRELL & RUSSELL	9	EXAMINER	
SUITE 3100, P	ROMENADE II		STALDER, MELISSA A	
ATLANTA, GA	REE STREET, N.E. A 30309-3592		ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			08/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/595,945	MAYER, RALF
Office Action Summary	Examiner	Art Unit
	MELISSA STALDER	1793
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perionally reply or perionally reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be not will apply and will expire SIX (6) MONTHS fruite, cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>28</u> This action is FINAL . 2b)☑ The 3)☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, p	
Disposition of Claims		
4) ☐ Claim(s) 1-6 is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers	rawn from consideration. /or election requirement.	
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) according a deplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the prapplication from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applic iority documents have been rece eau (PCT Rule 17.2(a)).	ation No ived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1 and 3 are rejected under 35 U.S.C. 102(a) as being anticipated by Haas (WO 03/049849). Haas teaches the production of catalyst where acidic metal salt solutions are precipitated by means of a basic solution. A suspension is formed and the catalysts are shaped through freezing and then freeze-drying followed by calcination (abstract; pg. 3, lines 1-11) (the freeze drying process involves sublimation of a liquid with the use of a vacuum pump). Haas does not teach the appearance of precipitates and instead teaches that the material in suspension that is then frozen can be shaped and identified (pg. 6, line 18-pg. 7, line 10; claims; pg. 2, line 24-pg. 3, line 11).

Regarding claim 3, Haas teaches examining the shaped bodies for their catalytic applications (pg. 24, lines 7-8).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Kirchnerova, Jitka, Synthesis and characterization of perovskite catalysts, Solid State lonics 12 (1999) 307-317). Kirchnerova teaches the production of a perovskite catalyst where a slurry of lanthanum hydroxide and metal nitride is mixed with a hydroxide slurry to form a precipitate and then a suspension. The suspension is spray-frozen, freezedried and calcined (the freeze drying process involves sublimation of a liquid with the use of a vacuum pump). The resulting catalyst is identified (abstract; pg. 307, 2nd column; p. 310). Kirchenerova teaches that freezing should be done as quickly as possible to preserve solution homogeneity (p. 308, 2nd column). The catalytic activity is examined in the results section of the paper.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haas (WO 03/049849) as in claims 1 and 3 above, further in view of Allison (US 6,723,886).

Allison teaches reaction vessels running in parallel surrounded by a cooling medium (figures 7 and 8). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the process of Haas with the vessels of Allison

because the parallel reactors are able to produce a greater amount of end product yet still be operated efficiently as they can all be cooled together. Although Allison teaches the production of a different product, use of reactor vessels in parallel instead of individually or consecutively is well known in the art and for commercial production of reactants.

Claims 2 and 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kirchnerova, Jitka, Synthesis and characterization of perovskite catalysts, Solid State Ionics 12 (1999) 307-317) as in claims 1 and 3 above, further in view of Allison (US 6,723,886).

Allison teaches reaction vessels running in parallel surrounded by a cooling medium (figures 7 and 8). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the process of Haas with the vessels of Allison because the parallel reactors are able to produce a greater amount of end product yet still be operated efficiently as they can all be cooled together. Although Allison teaches the production of a different product, use of reactor vessels in parallel instead of individually or consecutively is well known in the art and for commercial production of reactants.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELISSA STALDER whose telephone number is

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(571)270-5832. The examiner can normally be reached on Monday-Friday, 8:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Melvin Curtis Mayes can be reached on 571-272-1234. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MS 08-05-09

/Melvin Curtis Mayes/ Supervisory Patent Examiner, Art Unit 1793